

IN THE CLAIMS

Please amend claims 1, 2, and 9 as shown below, in which deletions are indicated by strikethrough and/or double brackets, and additions are indicated by underscoring. This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (currently amended). A vehicle speed display apparatus for a vehicle having a plurality of wheels and a drive mode switch operable to change operation of said vehicle between a 2WD mode and a 4WD mode,

said vehicle speed display apparatus comprising:

a front wheel rotational speed sensor for detecting a rotational speed of at least one ~~[[of the]]~~ front wheel~~[[s]]~~ of said vehicle,

a rear wheel rotational speed sensor for detecting a rotational speed of at least one ~~[[of the]]~~ rear wheel~~[[s]]~~ of said vehicle,

a vehicle speed calculator for calculating vehicle speed based on a selected output from the front or rear wheel rotational speed sensor;

a speed display mechanism for displaying the vehicle speed calculated by the vehicle speed calculator, and

a drive mode sensor for detecting whether the vehicle is traveling in the 2WD mode or in the 4WD mode,

wherein the vehicle speed calculator comprises

a first vehicle speed calculating unit for calculating vehicle speed based on the selected output from ~~the~~ one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor, and from a first

predetermined condition, and

a second vehicle speed calculating unit for calculating vehicle speed based on the selected output from the one of the one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor, and from a second predetermined condition, and

wherein the display mechanism displays the vehicle speed calculated by the first vehicle speed calculating unit or the second vehicle speed calculating unit, based on an input from the drive mode sensor, and

wherein the first vehicle speed calculating unit and the second vehicle speed calculating unit each correct the calculated vehicle speed based on an input from the drive mode sensor.

Claim 2 (currently amended). A vehicle speed display apparatus ~~according to Claim 1~~, wherein for a vehicle having a plurality of wheels and a drive mode switch operable to change operation of said vehicle between a 2WD mode and a 4WD mode,

said vehicle speed display apparatus comprising:

a front wheel rotational speed sensor for detecting a rotational speed of at least one of the at least one front wheels of said vehicle,

a rear wheel rotational speed sensor for detecting a rotational speed of at least one of the rear wheels of said vehicle,

a vehicle speed calculator for calculating vehicle speed based on a selected output from the front or rear wheel rotational speed sensor;

a speed display mechanism for displaying the vehicle speed calculated by the

vehicle speed calculator, and

a drive mode sensor for detecting whether the vehicle is traveling in the 2WD mode or in the 4WD mode,

wherein the vehicle speed calculator comprises

a first vehicle speed calculating unit for calculating vehicle speed based on the selected output from one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor, and from a first predetermined condition, and

a second vehicle speed calculating unit for calculating vehicle speed based on the selected output from the one of the one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor, and from a second predetermined condition, and

wherein the display mechanism displays the vehicle speed calculated by the first vehicle speed calculating unit or the second vehicle speed calculating unit, based on an input from the drive mode sensor,

the first vehicle speed calculating unit calculates the vehicle speed by using the selected output from the one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor as a detected speed, and adjusting the detected speed using a first correction coefficient, and

the second vehicle speed calculating unit calculates the vehicle speed using the selected output the one of said front wheel rotational speed sensor and said rear wheel rotational speed sensor as a detected speed, and adjusting the detected speed using a second correction coefficient, and wherein the first correction coefficient is larger than the second correction

coefficient.

Claim 3 (original). A vehicle speed display apparatus according to Claim 1, wherein the drive mode sensor detects whether the vehicle is traveling in the 2WD mode or in the 4WD mode based on the position of the drive mode switch.

Claim 4 (previously presented). A vehicle speed display apparatus for a vehicle having a plurality of wheels and a drive mode switch operable to change operation of said vehicle between a 2WD mode and a 4WD mode,

said vehicle speed display apparatus comprising:

a drive mode sensor for detecting whether the vehicle is traveling in the 2WD mode or in the 4WD mode;

a wheel rotational speed sensor for detecting a rotational speed of at least one of the wheels of said vehicle,

a vehicle speed calculator for calculating a sensed vehicle speed based on an output from the wheel rotational speed sensor, and for correcting the sensed vehicle speed using a correction coefficient, wherein the vehicle speed calculator comprises a 2WD correcting unit for correcting a detected speed when the vehicle is traveling in 2WD mode and a 4WD correcting unit for correcting a detected speed when the vehicle is traveling in 4WD mode; and

a speed display mechanism for displaying the corrected vehicle speed calculated by the vehicle speed calculator.

Claim 5 (previously presented). The vehicle speed display apparatus of claim 4, wherein the correction coefficient is selected based on an input from the drive mode sensor.

Claim 6 (original). The vehicle speed display apparatus of claim 1, wherein:
the display mechanism is operable to display the vehicle speed calculated by the vehicle speed calculator.

Claim 7 (previously presented). A method of displaying vehicle speed on a wheeled vehicle which is switchable between a 2WD mode and a 4WD mode, said method comprising the steps of:

- a) generating an uncorrected vehicle speed based on a signal from a vehicle speed sensor;
- b) sensing whether the vehicle is in the 2WD mode or in the 4WD mode using a drive mode sensor;
- c) adjusting the uncorrected vehicle speed using a correction coefficient to generate a corrected vehicle speed; and
- d) displaying the corrected vehicle speed on a speed display unit.

Claim 8 (original). The method of claim 7, wherein the correction coefficient is selected corresponding to the sensed drive mode.

Claim 9 (currently amended). A vehicle speed display apparatus for a ~~wheeled~~ vehicle having a plurality of wheels and drive mode switch operable to change operation of said vehicle between a

2WD mode and a 4WD mode,

said vehicle speed display apparatus comprising:

a wheel rotational speed sensor for detecting a rotational speed of at least one of the wheels of said vehicle,

a vehicle speed calculator for calculating vehicle speed based on an output from the wheel rotational speed sensor,

a speed display mechanism for displaying the vehicle speed calculated by the vehicle speed calculator, and

a drive mode sensor for detecting whether the vehicle is traveling in the 2WD mode or in the 4WD mode,

wherein the vehicle speed calculator comprises a first vehicle speed calculating unit for calculating the vehicle speed based on the output from the wheel rotational speed sensor and a first predetermined condition, and a second vehicle speed calculating unit for calculating the vehicle speed based on the output from the wheel rotational speed sensor and a second predetermined condition,

wherein the calculation performed by the first calculating unit and the second calculating unit includes providing a correction to the calculated vehicle speed,

the calculation performed by the first calculating unit is different from the calculation performed by the second calculating unit, and

wherein the display mechanism displays the vehicle speed calculated by the first vehicle speed calculating unit or the second vehicle speed calculating unit, based on an input from the drive mode sensor.

Claim 10 (previously presented). A four-wheeled vehicle comprising a vehicle speed display apparatus and a drive mode switch operable to change operation of said vehicle between a 2WD mode and a 4WD mode,

said vehicle speed display apparatus comprising:

a wheel rotational speed sensor for detecting a rotational speed of at least one of the wheels of said vehicle,

a vehicle speed calculator for calculating vehicle speed based on an output from the wheel rotational speed sensor;

a speed display mechanism for displaying the vehicle speed calculated by the vehicle speed calculator, and

a drive mode sensor for detecting whether the vehicle is traveling in the 2WD mode or in the 4WD mode,

wherein the vehicle speed calculator comprises a 2WD correcting unit for correcting a detected speed when the vehicle is traveling in 2WD mode and a 4WD correcting unit for correcting a detected speed when the vehicle is traveling in 4WD mode;

wherein the vehicle speed calculator selects a calculation for calculating vehicle speed from a first speed calculation and a second speed calculation, wherein the second speed calculation is different from the first speed calculation, and

wherein the selection of the calculation is determined based on an input from the drive mode sensor, such that when the vehicle is in the 2WD mode the result of the first calculation is displayed by the speed display mechanism, and when the vehicle is in the 4WD mode the result of the second calculation is displayed by the speed display mechanism.